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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : D. Amnon Silverstein

Art Unit : 2612

Serial No. : 09/484,667

Examiner : Rosendale, Matthew L.

Filed : Jan. 18, 2000

Title : POINTING DEVICE FOR DIGITAL CAMERA DISPLAY

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

EXHIBIT B

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Technology Center 2600

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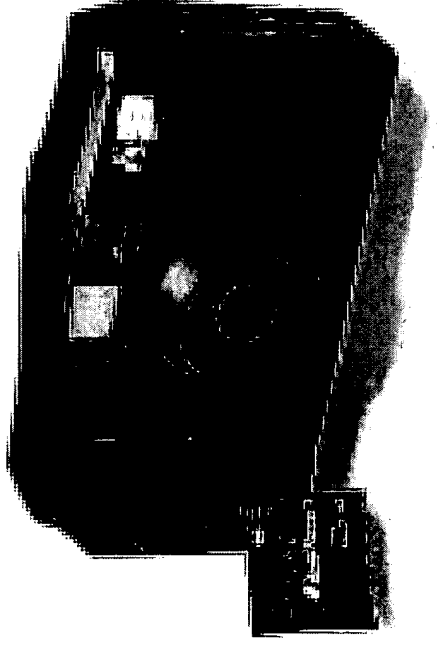
(Signature of person mailing papers)

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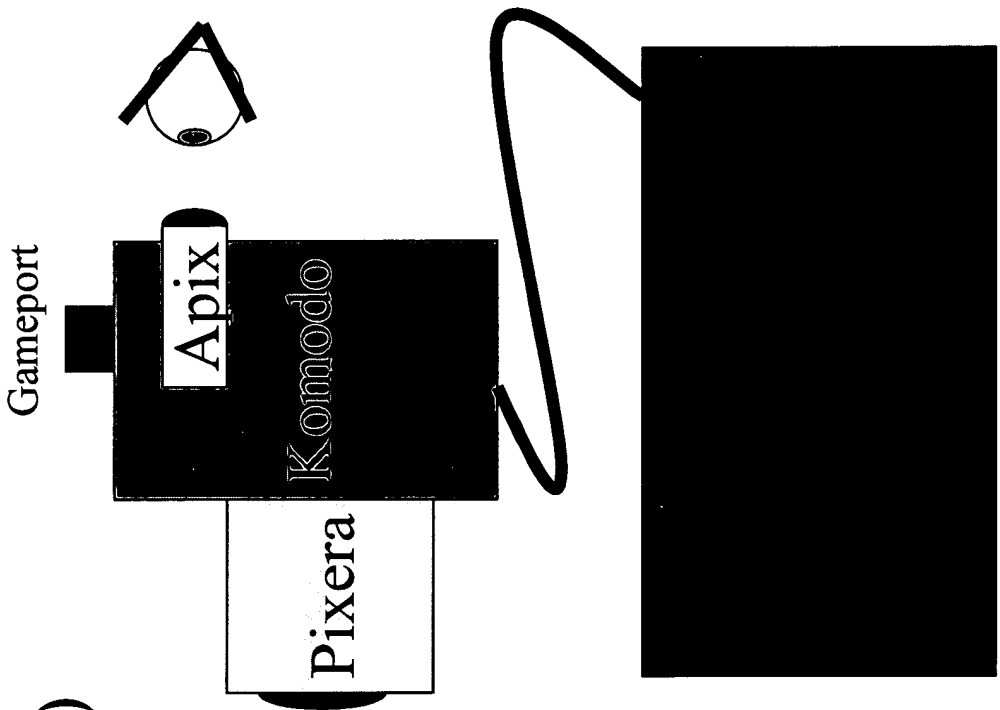
Will a microdisplay work well in a hand-held camera?



- Build a viewfinder display camera
- Test user-interface ideas
- Experiment with the camera in actual use

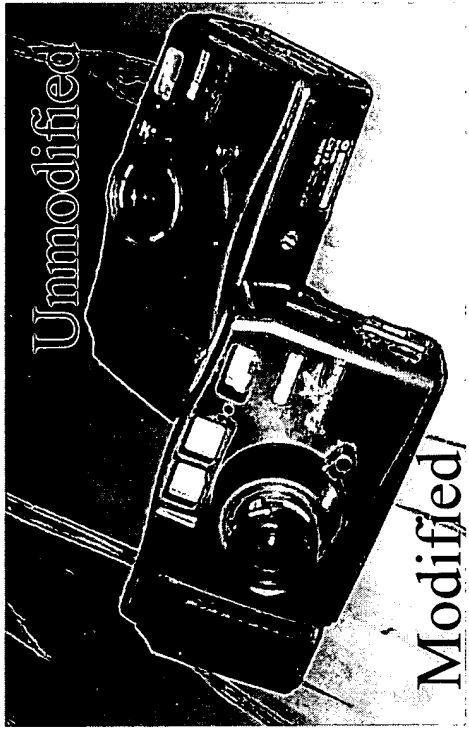
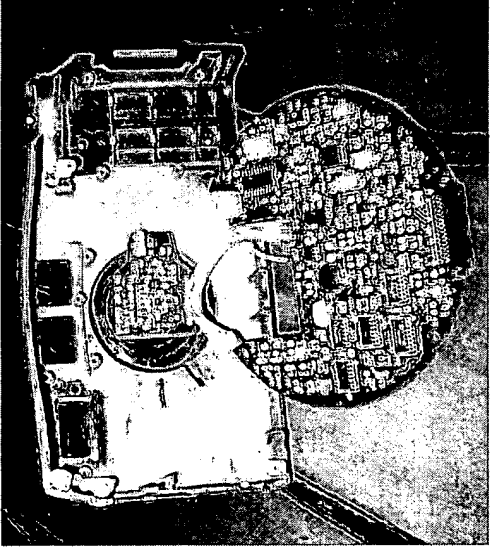
Hardware

- Camera Body: Komodo (HID)
- Camera: Pixera
- Controller: Pentium desktop_{C-mount}
- Display: Apix (ICBD)
- UI controls: Gameport
- Lens: C-mount
- View optics: HP (HID)

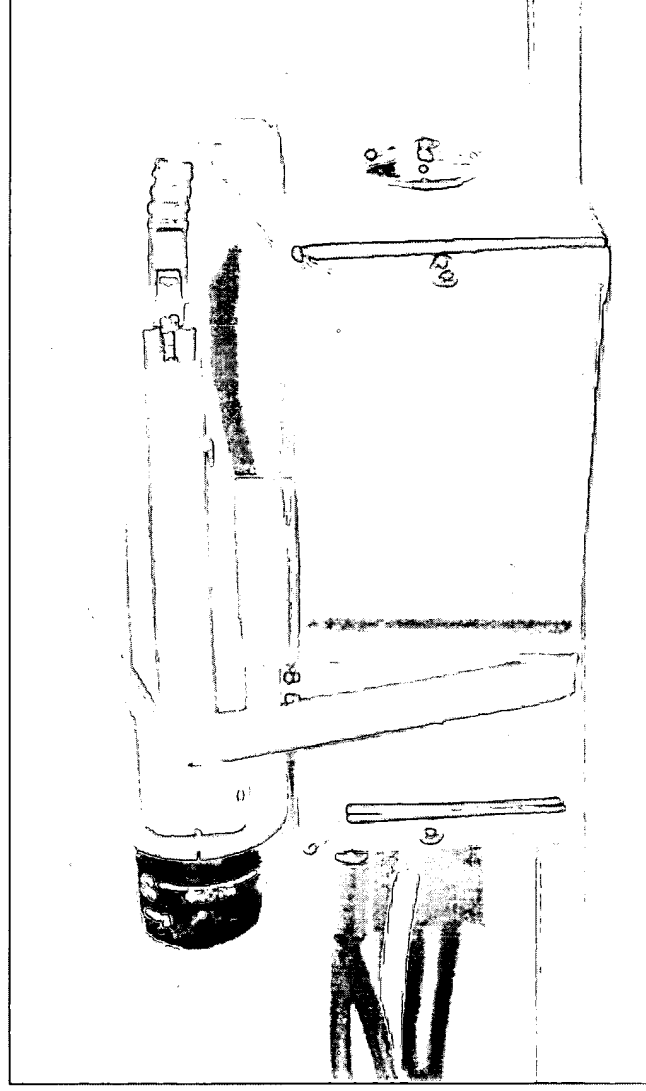


Modified Komodo

We chose the Pixera camera,
and we modified it to fit into
the Komodo body.



Interim Tester



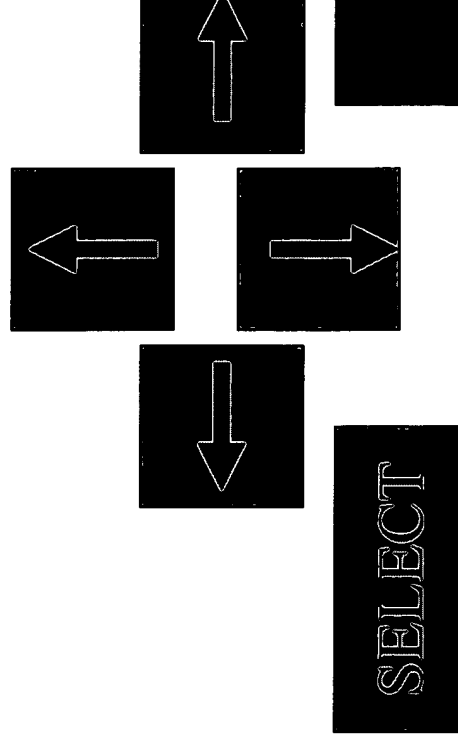
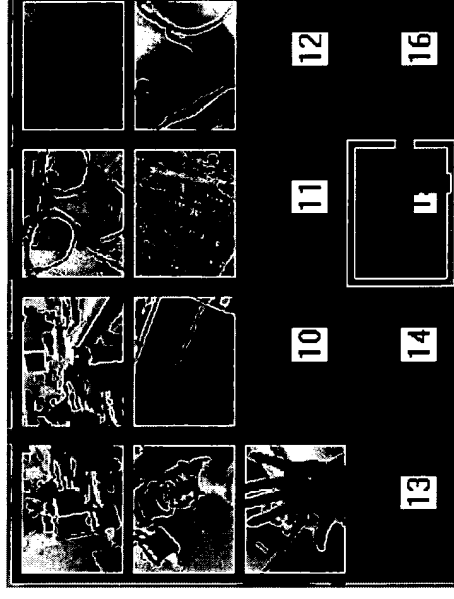
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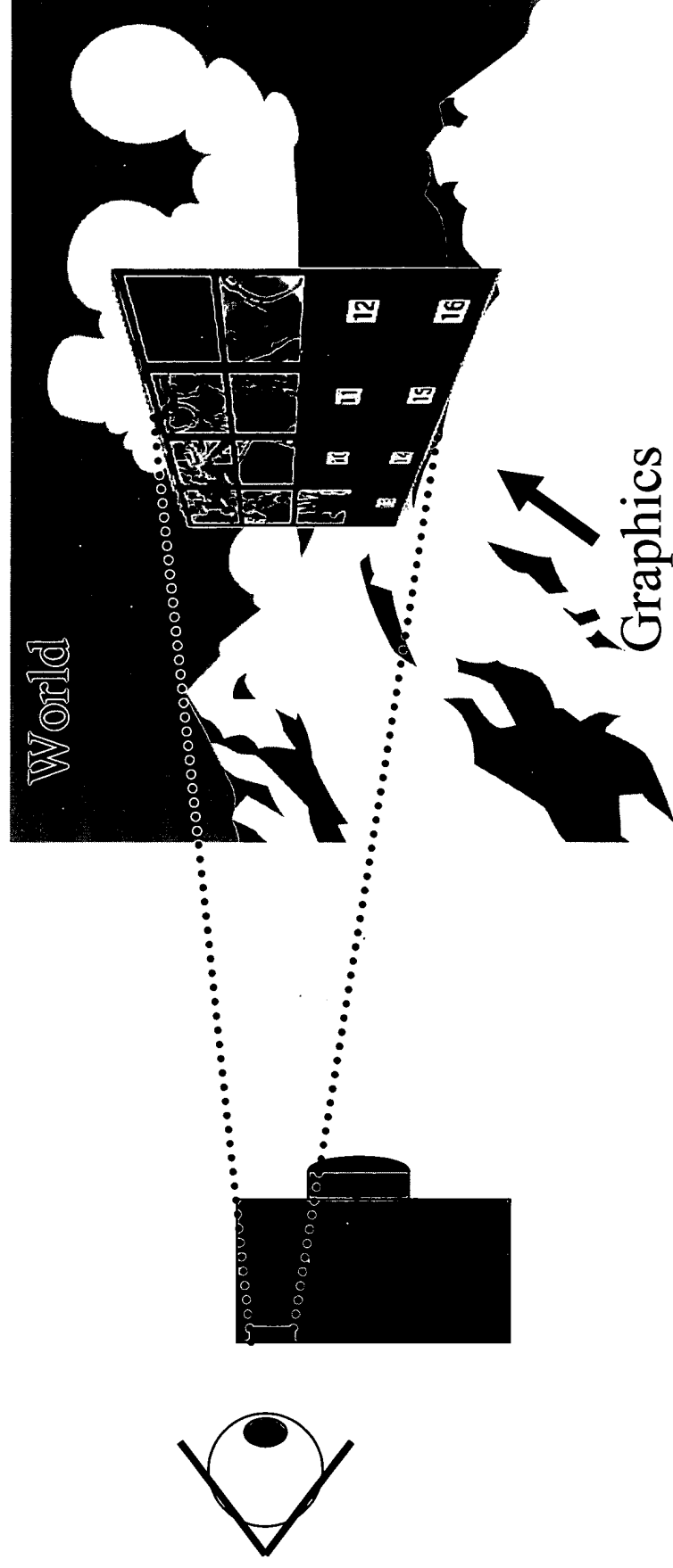
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Software

- How will the UI work?
- It may be difficult to look into the display and operate the controls at the same time.



Using the Camera Like a Gun-sight

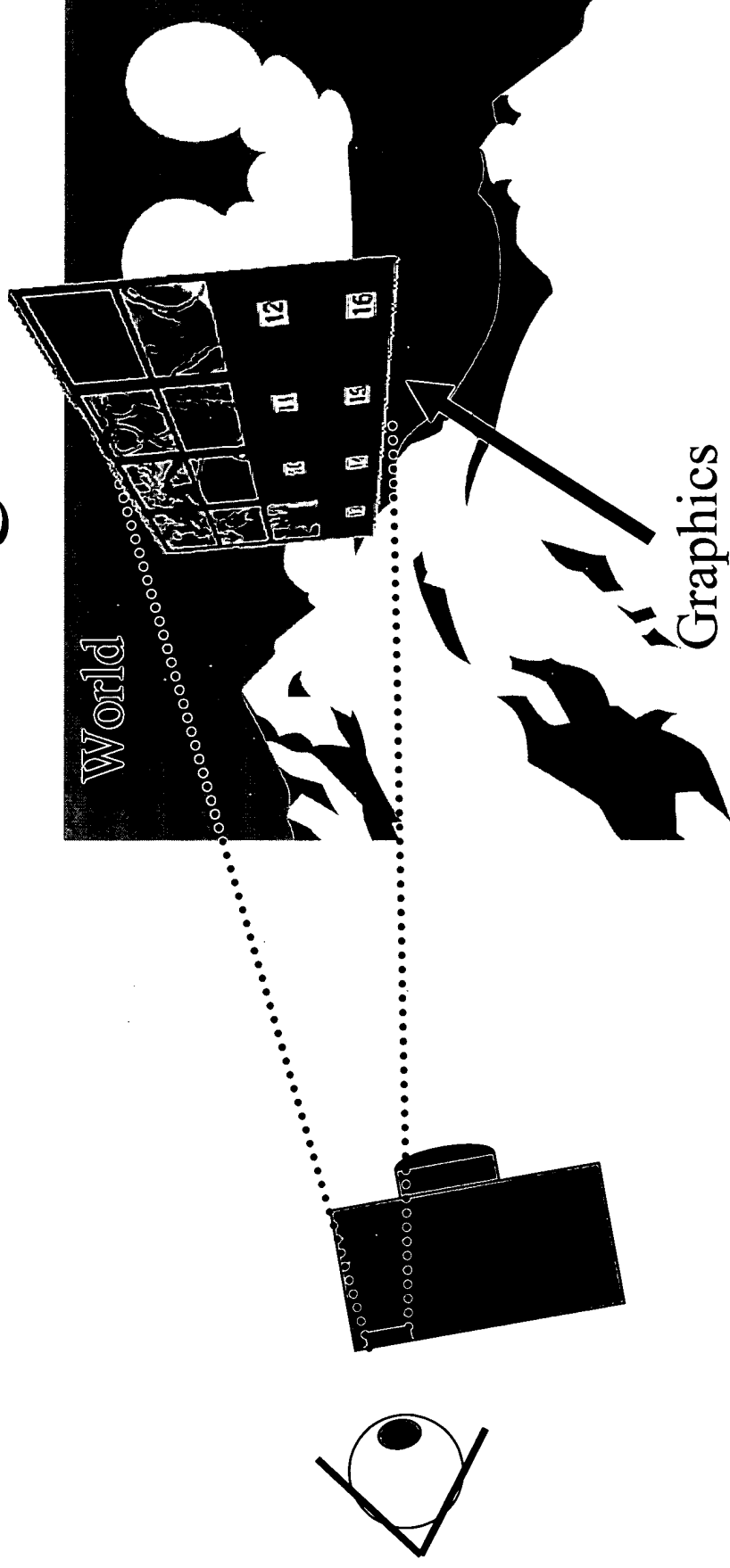


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Using the Camera Like a Gun-sight

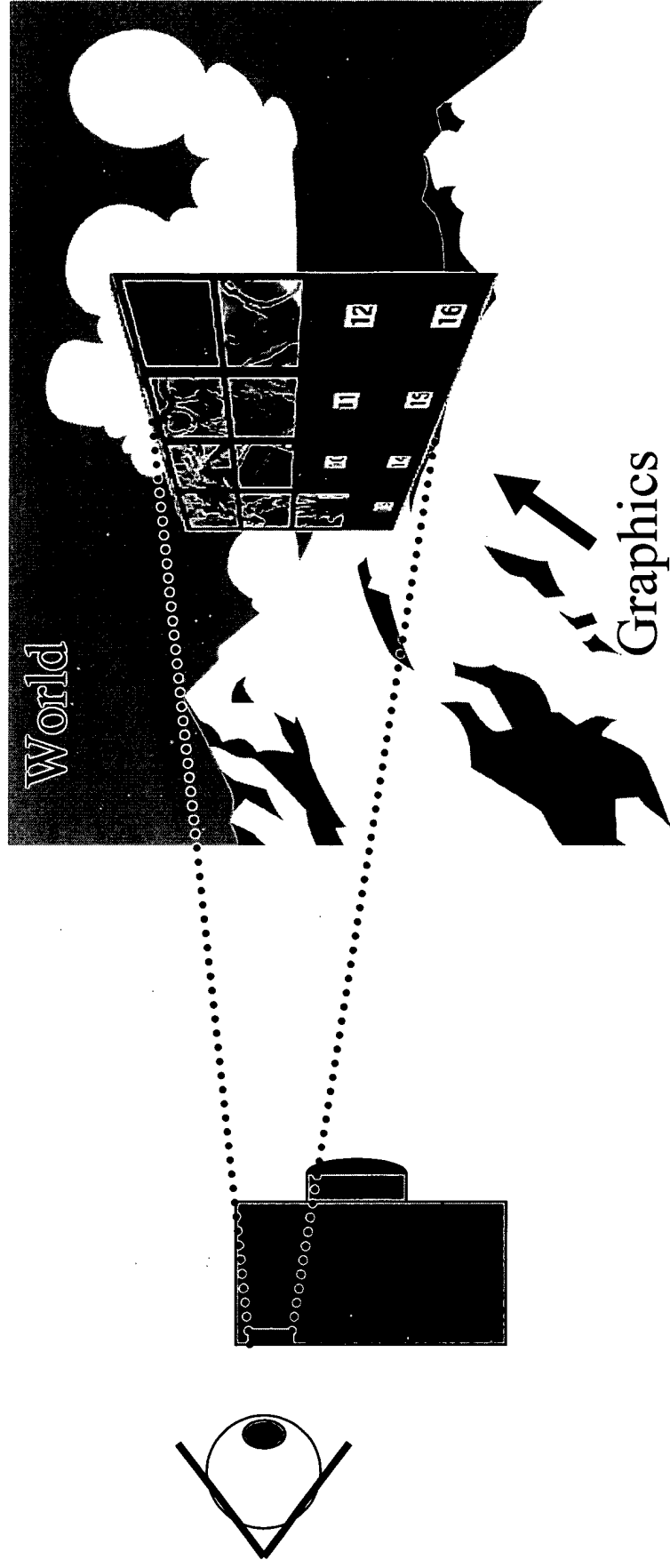


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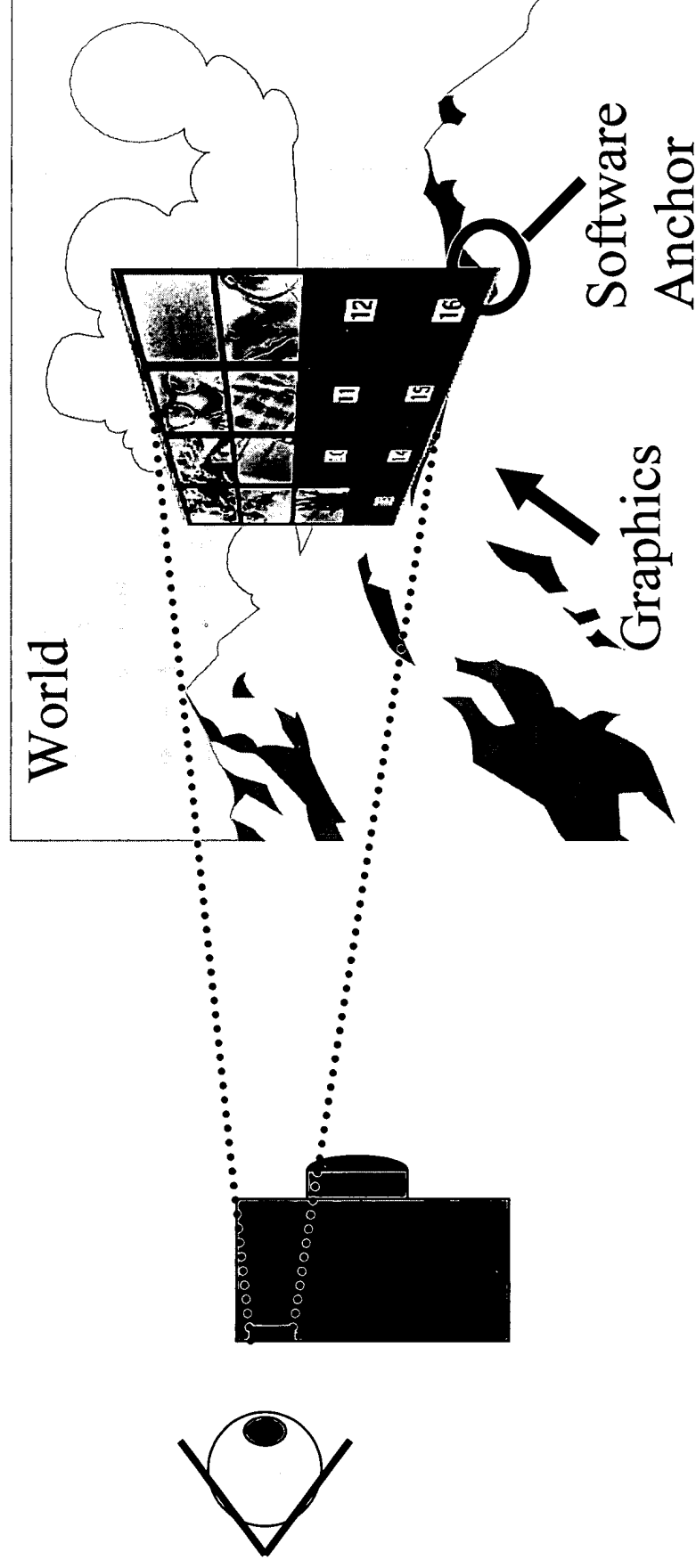
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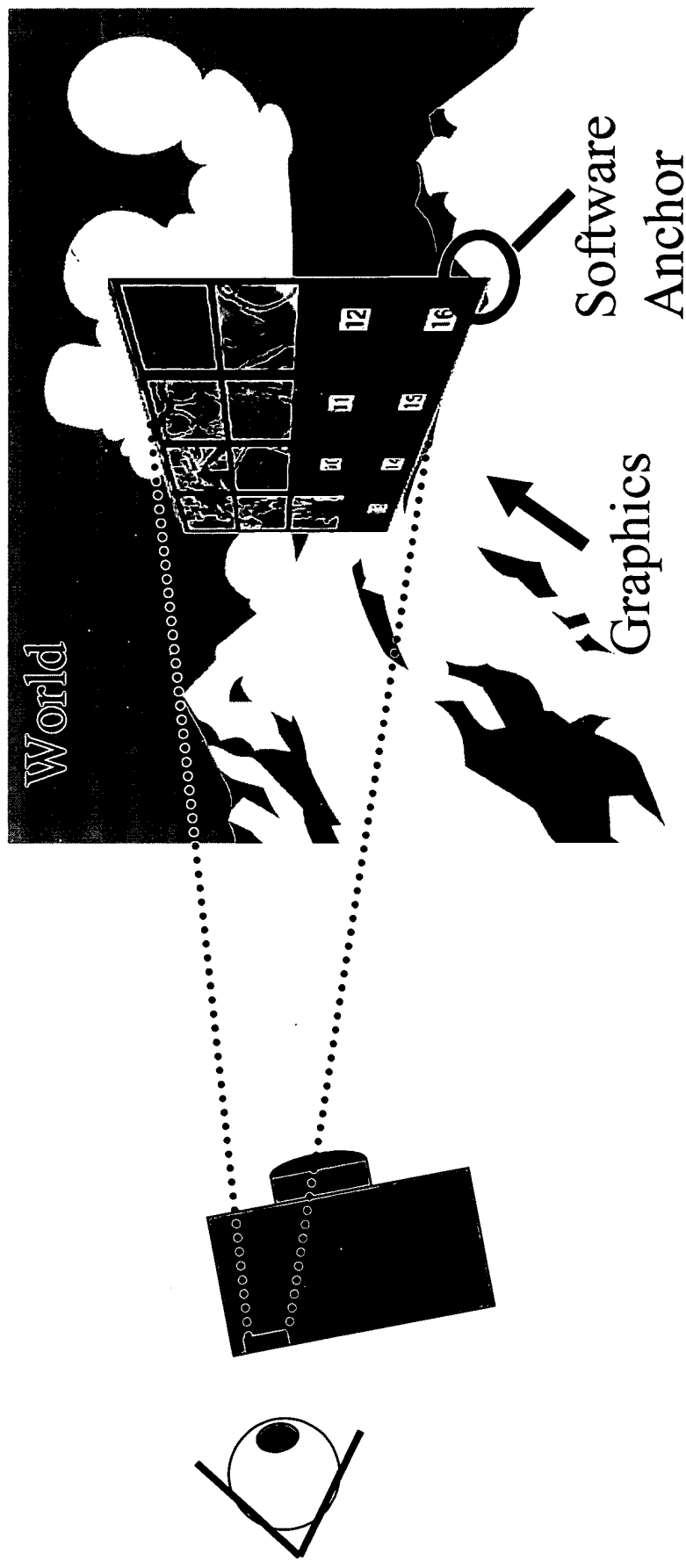
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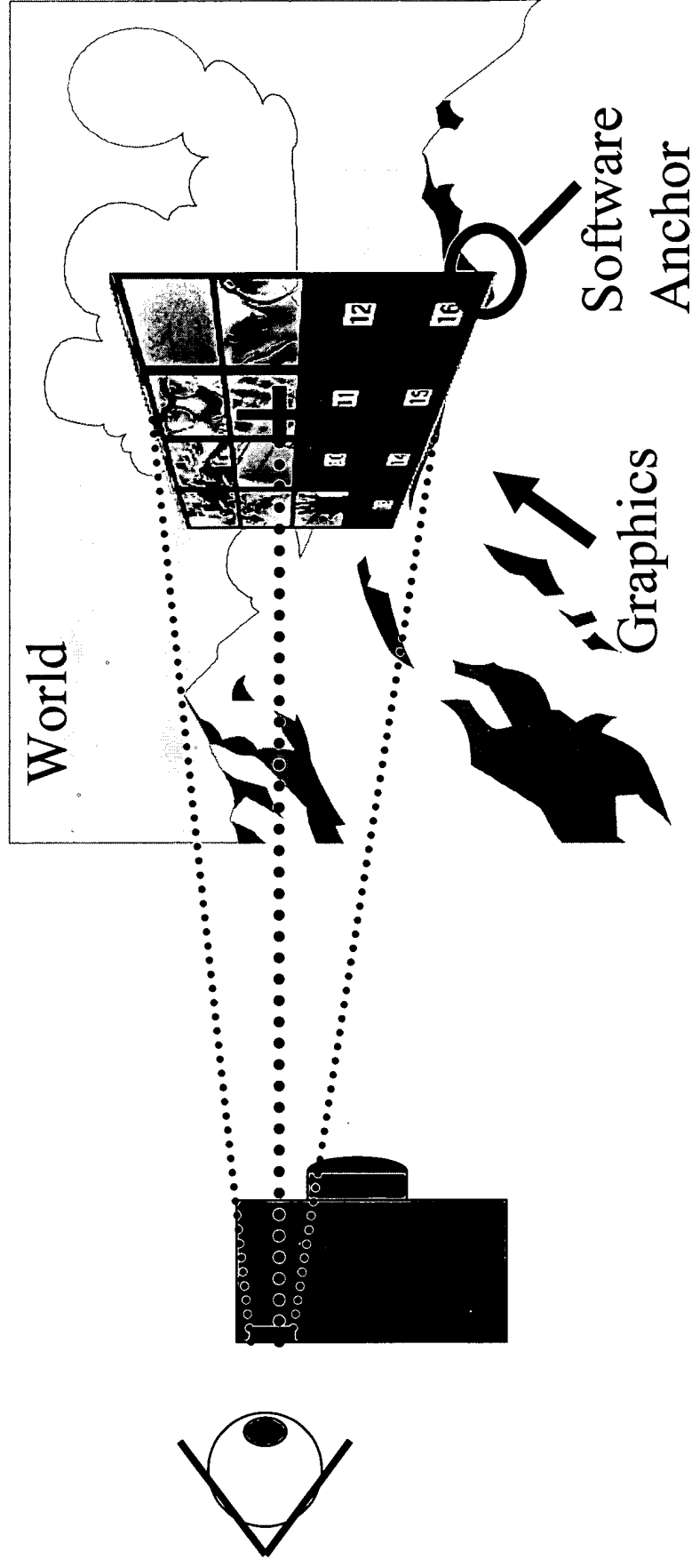
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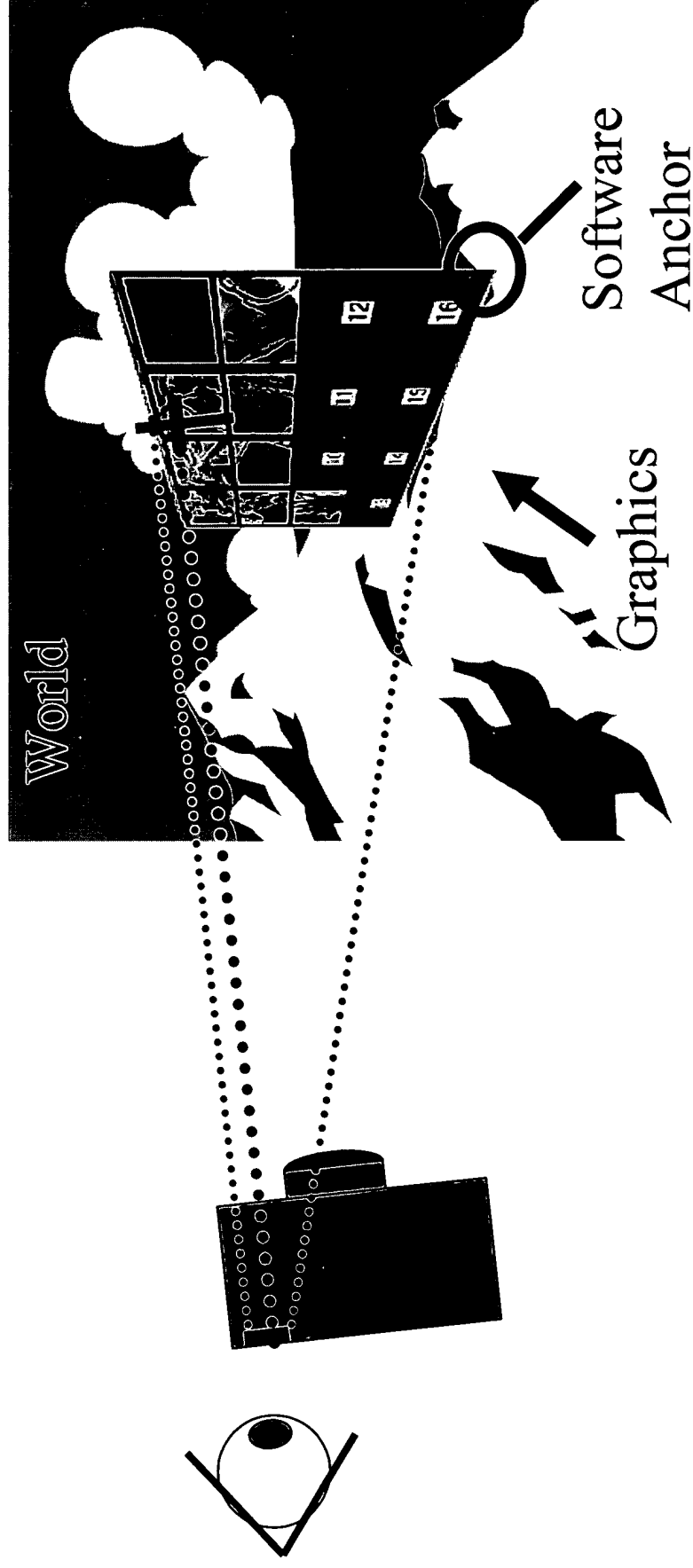
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Using the Camera Like a Gun-sight

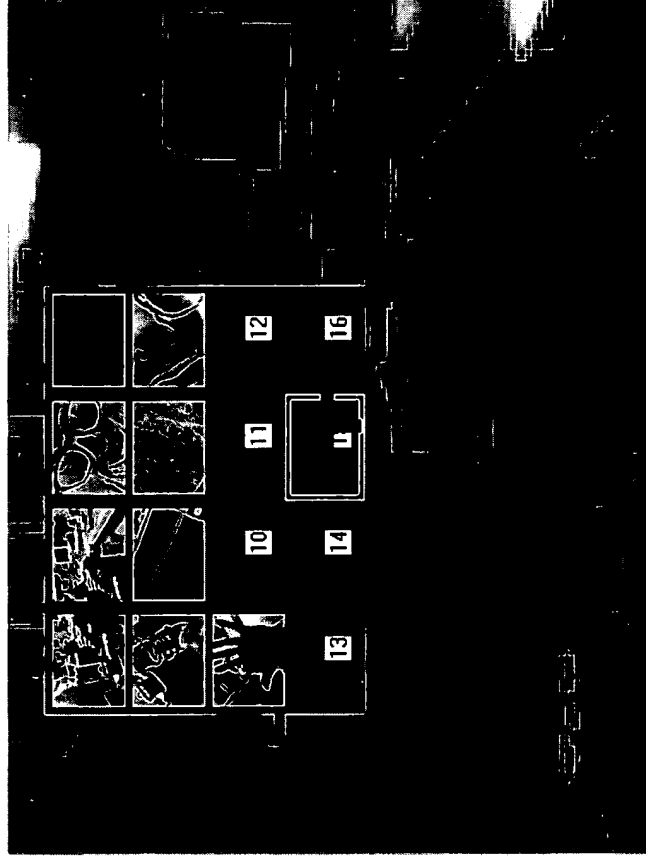


Using the Camera Like a Gun-sight



Camera-Mouse

Use motion-tracking software
(Andrew Patti) to track the
position of the camera

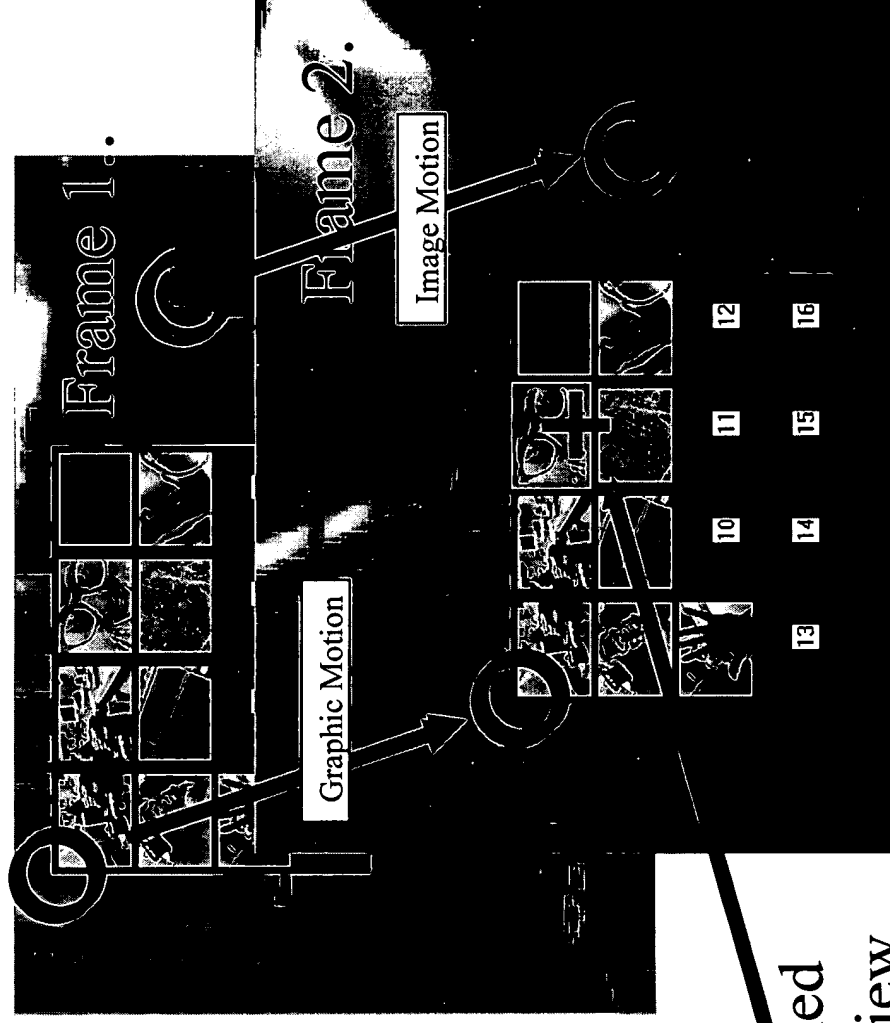


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Camera-Mouse



Crosshairs cursor fixed
in the center of the view.

Flying Mouse



- Low cost
- Low power
- low light
- Built-in tracking algorithm